99815 STAT

January 12, 1966

STAT

Attention:
Subject:
Reference:

Gentlemen:

STAT herein submits three (3) copies of the First Monthly Progress Report covering Phase II in the Design and Fabrication of a Variable Anamorphic Viewing System. The reporting period covered is December 1,1965 to January 1, 1966. The total accumulated expenditures for Phase II of this contract is approximately 3%.

If you have any questions concerning this project, please contact the writer directly.

Very truly yours,

STAT

STAT

Contract Administrator
Photogrammetric Contracts Section

Encs.-3 Copies Report

cc: Contracting Officer
(2 Copies Report)

Declass Review by NGA.

FIRST MONTHLY PROGRESS REPORT

DESIGN AND FABRICATION OF

VARIABLE ANAMORPHIC VIEWING SYSTEM

Period December 1, 1965 to January 1, 1966

STAT

Approved For Release 2004/11/30 : CIA-RDP78B04770A000400020045-8

Effort during the first month of the design and manufacture phase of this program has been on design of the optical system described in the design analysis dated September 27, 1965. It will be remembered that this system consisted, in sequence, of a field lens, a Pechan Prism, a collimating lens, an anamorphic zoom system, an objective lens, a second Pechan prism at right angles to the first, and finally a field lens. Previous design effort had been carried to the point that it seemed certain a final design could be obtained and present effort consists of achieving this design.

Primary emphasis is being placed on the use of a prism anamorphic system. The correction of lateral color in this system is proving to be more difficult than indicated by calculations made during the study phase. When this difficulty with lateral color was discovered a parallel effort to design a cylindrical zoom system was started and is continuing. This was considered desireable as a back up in case the color problem of the prism system cannot be solved. At the present time it appears that a prism system can be designed. Maximum effort is being applied to this approach because of its greater simplicity and consequent lower cost in production quantities.

It is presently anticipated that the design will be completed by the end of January. Assuming this a tentative schedule

for mechanical design, fabrication and evaluation has been drawn up. This schedule shows that the 1 May delivery can be met. This tentative schedule is now being confirmed. Confirmation will be completed during the next period and a firm schedule submitted with the next report.